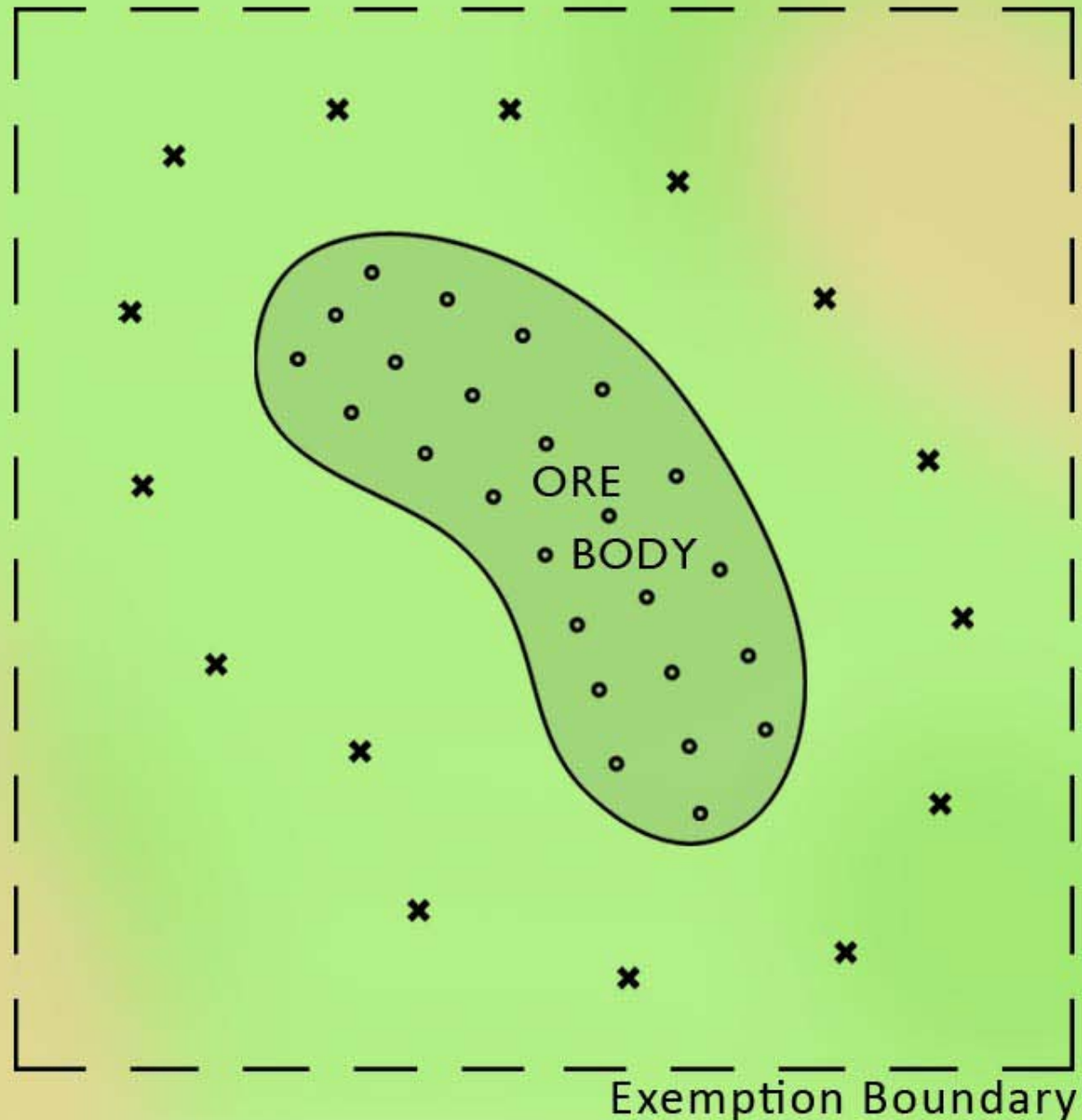


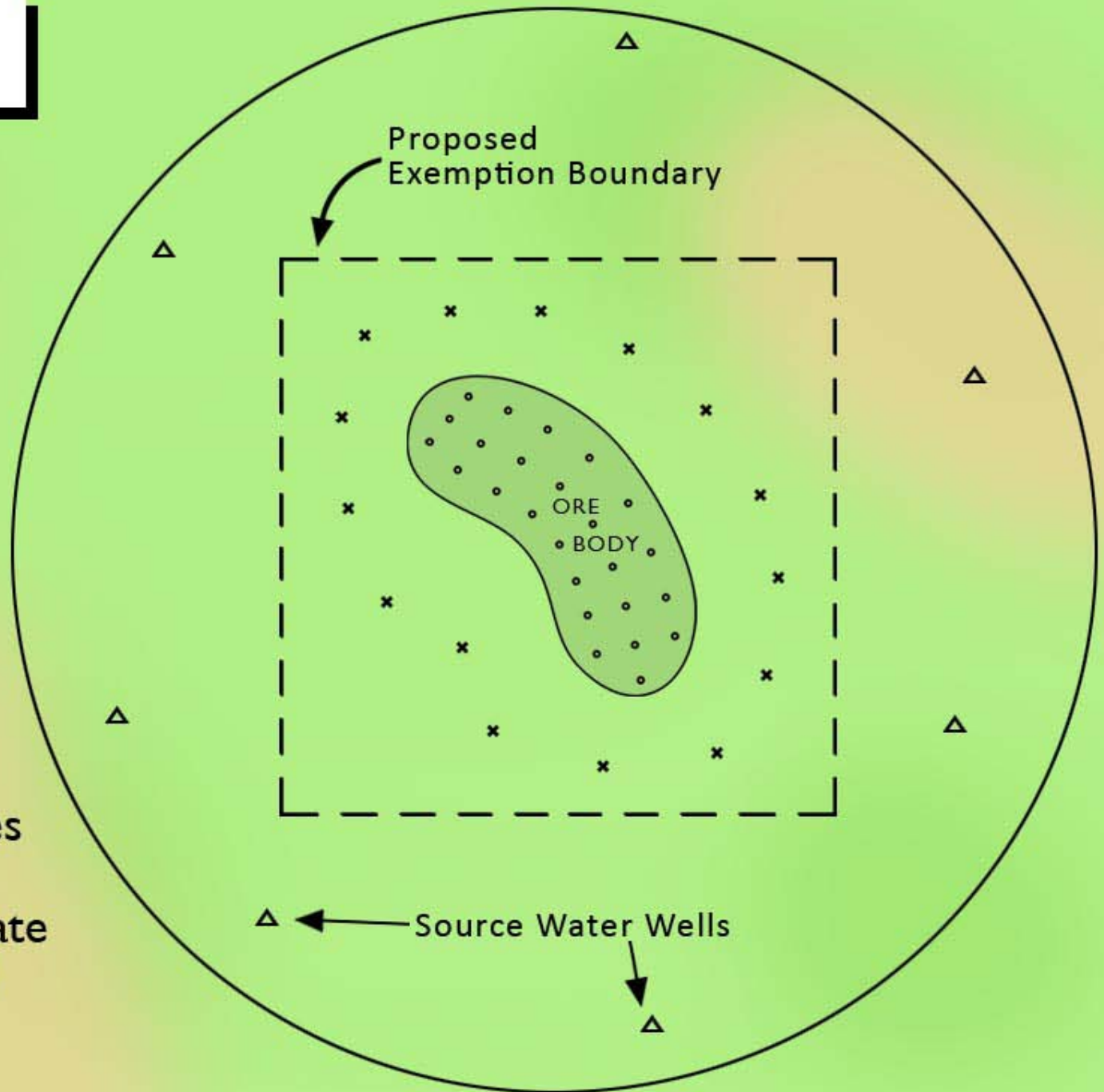
Hypothetical Mining Operation

- Production/Injection Wells
- ✕ Monitor Wells



Area of Review (AOR)

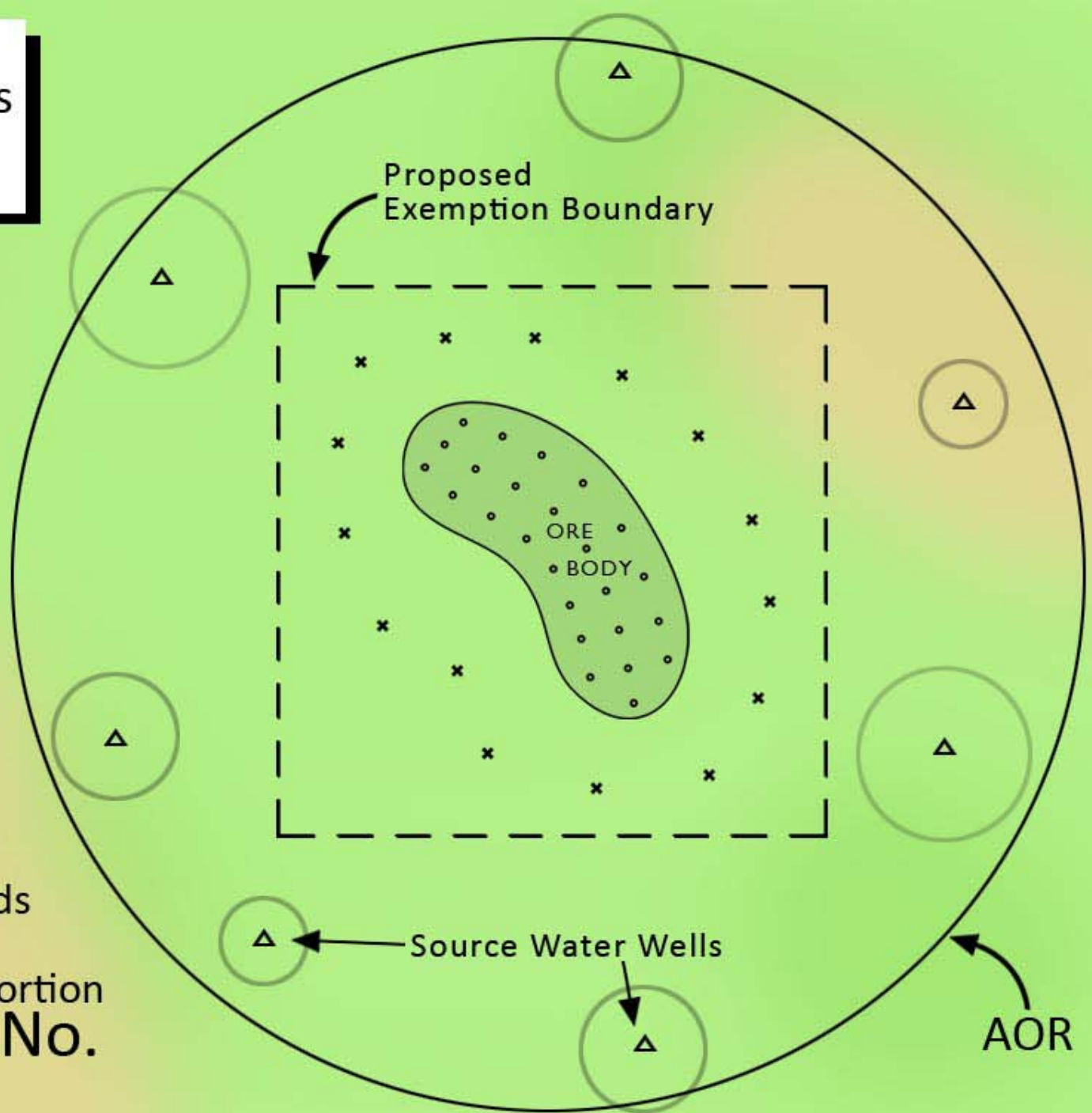
- Production/Injection Wells
- ✕ Monitor Wells
- △ Source Water Wells



Flow model takes into account:
recharge, flow rate & direction, and
withdrawal

Source water wells with cones of depression over time

- Production/Injection Wells
- ✕ Monitor Wells
- △ Source Water Wells



Time = production
+ restoration periods

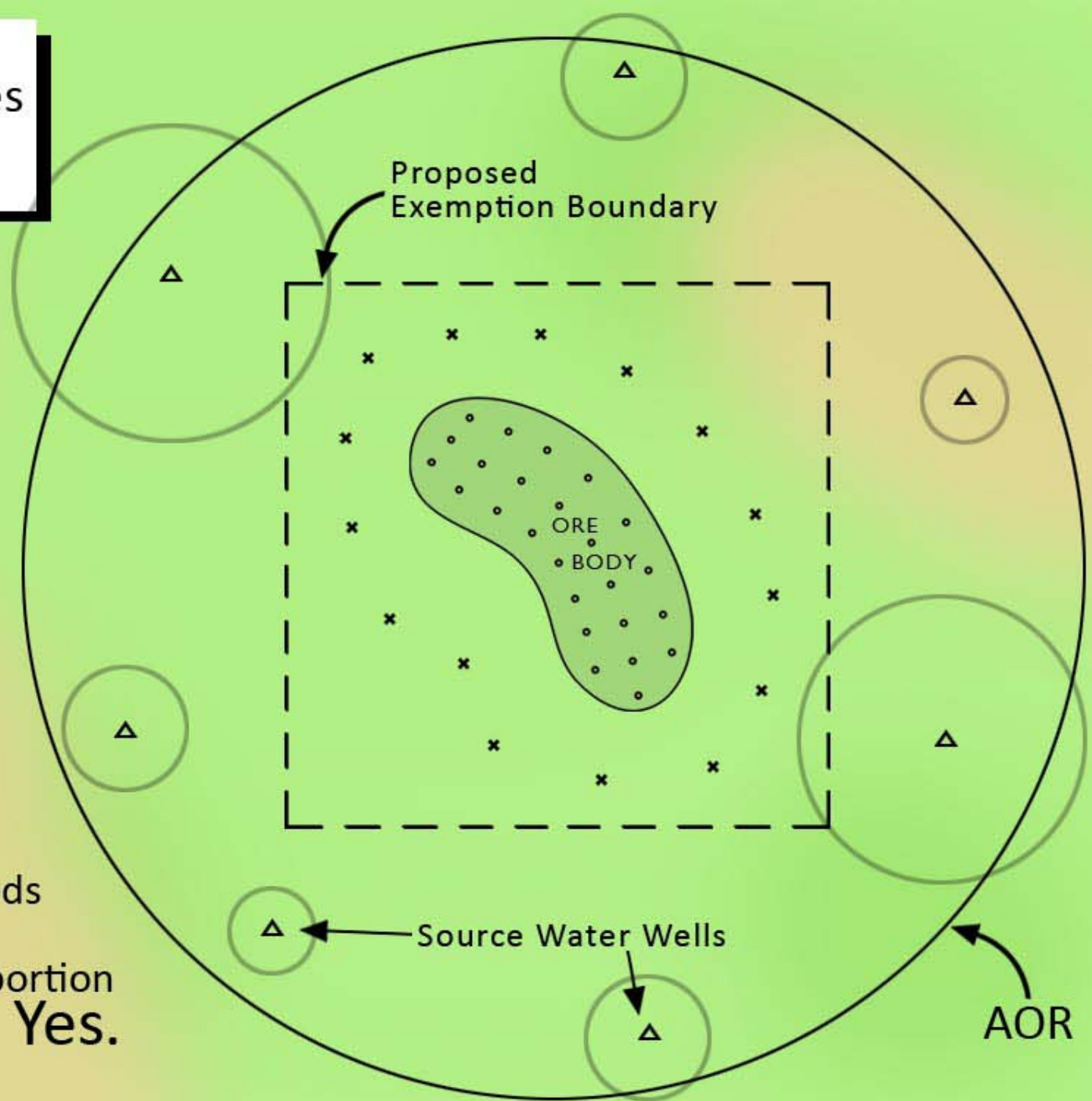
Does the aquifer portion
serve as a USDW? **No.**

Source water wells with cones of depression over time

- Production/Injection Wells
- ✕ Monitor Wells
- △ Source Water Wells

Time = production + restoration periods

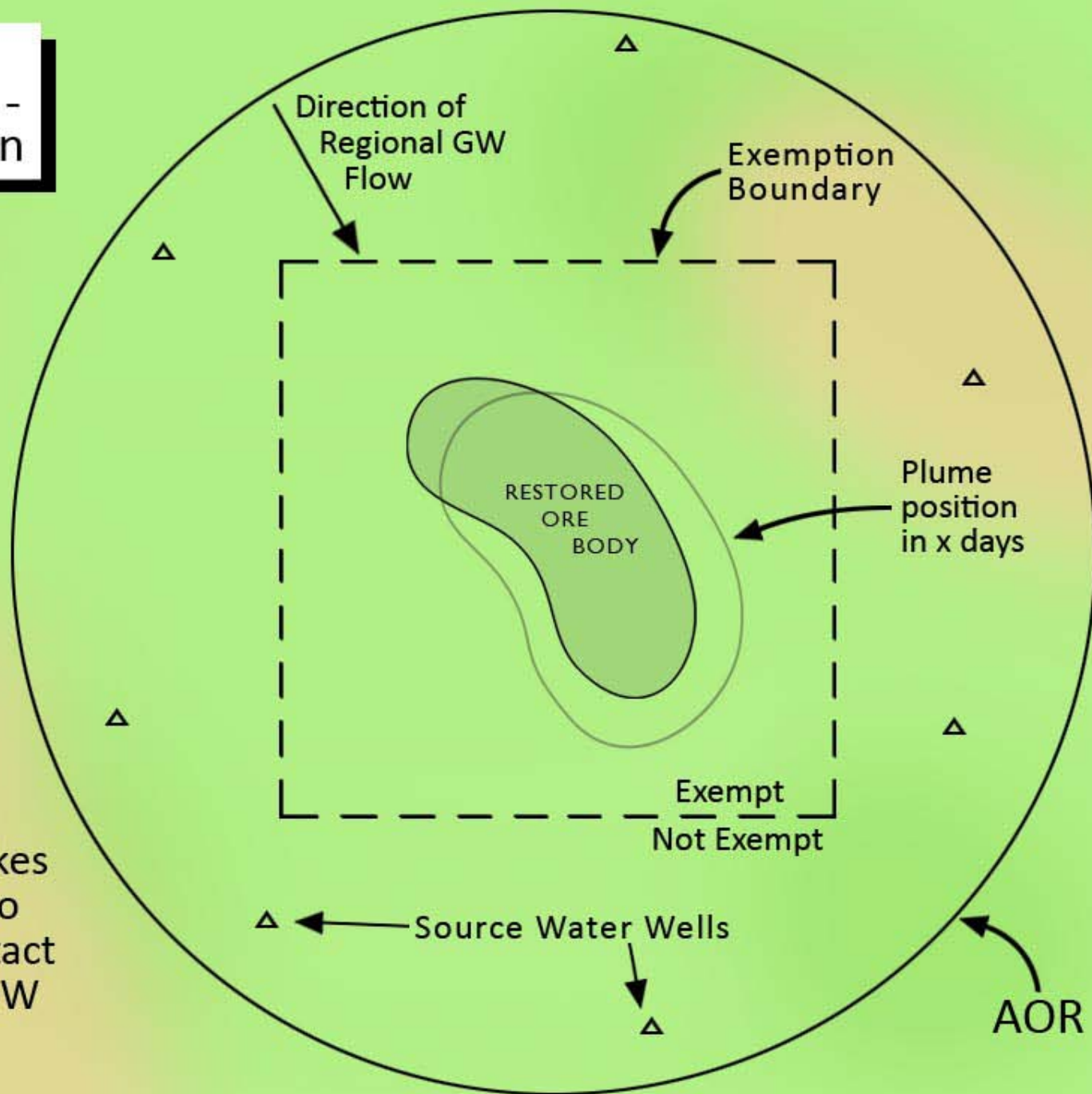
Does the aquifer portion serve as a USDW? **Yes.**



Chem fate demonstration - after restoration

△ Source Water Wells

Time = time it takes restored plume to migrate and contact non-exempt USDW



Chem fate demonstration - after restoration

△ Source Water Wells

Does Chemfate model indicate a violation of 144.12?

Time = time it takes restored plume to migrate and contact non-exempt USDW

